ELSEVIER

Thin Solid Films 353 (1999) 287–288

thin solid films

Author Index of Volume 354

Abd-Lefdil, M., 5
Addonizio, M.L., 73
Ahmed, W., 276
Ali, N., 276
Alvisi, M., 19
An, Q., 208
Ando, T., 24
Angelaccio, A., 245
Antonaia, A., 73
Aprea, S., 73
Asaka, K., 201
Ata, M., 106
Atashbar, M.Z., 222

Badzian, A., 148
Badzian, T., 148
Baik, D.G., 227
Balogh, D.T., 215
Barros, A.M., 215
Bendavid, A., 169
Bender, M., 100
Ben-Hander, F., 34
Bertran, E., 187
Bihri, H., 5
Bobeth, M., 267
Bouwen, W., 87
Brousse, T., 50
Brzezinka, K.-W., 106

Calzada, M.L., 66
Canillas, A., 187
Cattani, M., 1
Chattopadhyay, K.K., 24
Chen, J., 231
Chen, J.-J., 173
Cho, S.M., 227
Choi, H.S., 251
Choi, I.H., 251
Choi, S.-C., 29
Choi, W.-K., 29
Chung, C.W., 111
Chung, I., 111
Clarke, C.J., 136
Clem, P.G., 256
Constantino, C.J.L., 215

Dall'Orto, V.C., 245
D'Amico, A., 245
Deki, S.,
Dhanabalan, A., 215
Di Natale, C., 245
Diener, G., 267
Dimos, D., 256
Doi, T., 195
Drawl, W., 148
Dreer, S., 43

Eisenberg, A., 136
Emelianov, I.L., 237
Eschbaumer, C., 208

Fan, Q.H., 276
Fierro, J.L.G., 34
Friedbacher, G., 43
Fujitsuka, M., 13

Gómez-Garrido, P., 34
Garcia-Caurel, E., 187
Garifullin, I.A., 93
Gong, B., 222
Gonzales, D.M., 256
Goryunov, Y.V., 93
Goto, K.,
Greczynski, G., 129
Gross, T., 106
Guerrero-Lemus, R., 34

Hajji, B., 9
Hakuraku, Y., 195
Hassan, I.U., 276
Hentschel, M., 267
Higo, S., 195
Hishinuma, M., 38
Hou, Z., 231
Hurst, J., 245

Ito, O., 13

Jeong, Y.W., 82
Jiang, Q., 283
Jiujun, X., 154
Jung, H.-J., 29

Khatko, V.V., 237
Kim, H.H., 82
Kim, K.-H., 29
Koba, S., 195
Krismer, R., 43
Kugler, T., 129
Kunnen, E., 87
Kwon, H.J., 82

Lacorre, P., 50
Laffez, P., 50
Lamb, R., 222
Law, C.W., 162
Lazar, L., 93
Lee, C.-M., 29
Lee, J.S., 82
Lee, J.Y., 251
Leinen, D., 66
Lennox, R.B., 136
Leung, Y.S., 55
Li, F., 231
Li, J.C., 283
Li, J.H., 162
Li, K., 162
Li, S., 136
Li, Y., 154
Lievens, P., 87
Lin, J.-D., 173
Liu, L., 231
Luo, J.L., 142

Macagnano, A., 245
Marinković, S., 118
Martelli, S., 19
Martin, P.J., 169
Martín-Palma, R.J., 34
Martinez, A., 9
Martínez-Duart, J.M., 34
Mascini, M., 245
Matsumoto, S., 24
Matsuzaki, Y., 38
Minarini, C., 73
Monot, I., 50
Moreno, J.D., 34
Mori, Z., 195
Motta, N., 245

Nishitani-Gamo, M., 24
Noguchi, T.,
Nozoe, S., 195

O' Hare, I.P., 276
Oliveira Jr., O.N., 215
Olivié, F., 9
Ottova, A., 201

Paolesse, R., 245
Park, S.T., 251
Patchet, B.M., 142
Peisl, J., 208
Pflüger, E., 59
Plech, A., 208
Polichetti, T., 73
Pompe, W., 267
Poon, M.C., 162

Rakočević, Z., 118
Ramm, M., 106
Rego, C.A., 276
Rezzano, I., 245
Rizzo, A., 19
Rodríguez-Castellón, E., 66
Roy, R., 148
Rubino, A., 73
Ruffner, J.A., 256
Ryu, B.G., 82

Sakaguchi, I., 24
Salaneck, W.R., 129
Salditt, T., 208
Salvadori, M.C., 1
Savan, A., 59
Sayo, K.,

PII: S0040-6090(99)00697-5

Scaglione, S., 19
Schubert, U.S., 208
Sgarlata, A., 245
Sheu, L.-J., 173
Shi, H.X., 283
Shin, D.S., 251
Silveira, M.G., 1
Silverans, R.E., 87
Simmonds, M.C., 59
Sirera, R., 66
Song, J.-H., 29
Stanković, S., 118
Stollenwerk, J., 100
Sun, H.T., 222

Temple-Boyer, P., 9
Temst, K., 87
Thoen, P., 87
Tien, H.T., 201
Tong, K.Y., 162
Trube, J., 100
Tuttle, B.A., 256

Unger, W., 106

Van Bael, M.J., 87
Van Swygenhoven, H., 59
Vanhoutte, F., 87
Vasanelli, L., 19

Wang, B., 262
Wang, W., 231
Watanabe, A., 13
Weidele, H., 87
Weidl, C.H., 208
Westerholt, K., 93
Wieczorek, L., 169
Wilhartitz, P., 43
Wlodarski, W., 222
Wong, K.H., 55

Xinxiang, P., 154
Xu, L., 231
Xu, Z.,231

Yan, Y., 262
Yang, M.Z., 142
Yasuda, I., 38
Ye, M., 231
Yokoyama, N., 195

Zabel, H., 93
Zaghrioui, M., 50
Zhang, L., 262
Zhang, L.D., 262
Zhang, S.L., 262
Zhang, Y.-F., 24

ELSEVIER

Thin Solid Films 354 (1999) 289–293

thin solid films

Subject Index of Volume 354

Absorbing media
Simultaneous measurement of spectral optical properties and thickness of an absorbing thin film on a substrate, 173
Adhesion
Effects of cemented carbide surface pretreatment in combustion flame chemical vapour deposition of diamond, 118
Aluminium nitride
Effect of substrate composition on the piezoelectric response of reactively sputtered AlN thin films, 256
Aluminium oxynitride
Statistical evaluation of refractive index, growth rate, hardness and Young's modulus of aluminium oxynitride films, 43
Amorphous materials
Studies of amorphous carbon using X-ray photoelectron spectroscopy, near-edge X-ray-absorption fine structure and Raman spectroscopy, 106
Annealing
In-situ annealing effect of sputter-deposited $Nd_1Ba_2Cu_3O_{7-\delta}$ thin films, 195

Boron nitride
Cubic boron nitride thin film synthesis on silica substrates by low-pressure inductively-coupled r.f. plasma chemical vapor deposition, 24

Cahn–Hilliard equation
On the short-time compositional stability of periodic multilayers, 267
Carbon
Studies of amorphous carbon using X-ray photoelectron spectroscopy, near-edge X-ray-absorption fine structure and Raman spectroscopy, 106
C_3N_4
Silicon carbonitride, a new hard material and its relation to the confusion about 'harder than diamond' C_3N_4, 148
Ceramics
Effect of oxygen content and thickness of sputtered RuO_x electrodes on the ferroelectric and fatigue properties of sol–gel PZT thin films, 162
Chemical solution deposition
Effect of pre-annealing on physical and electrical properties of $SrBi_2Ta_2O_9$ thin films prepared by chemical solution deposition, 111
Chemical vapor deposition
Electrical characterisation of thin silicon oxynitride films deposited by low pressure chemical vapour deposition, 9
Cubic boron nitride thin film synthesis on silica substrates by low-pressure inductively-coupled r.f. plasma chemical vapor deposition, 24
Effects of cemented carbide surface pretreatment in combustion flame chemical vapour deposition of diamond, 118
Clusters
Characterization of granular Ag films grown by low-energy cluster beam deposition, 87
Composition
On the short-time compositional stability of periodic multilayers, 267
Conductivity
Effect of an initially sulphur-rich sprayed solution on $CuInS_2$ thin films, 5
Corona poling
In situ second-harmonic generation measurement study of poled phenylhydrazone doped polymer films, 231
Critical parameters
Roughness and critical exponents analysis of diamond films by AFM imaging, 1
Cu thin film
A self-ion assisted beam (SIAB) source based upon unvala electron beam scheme, 29
CVD diamond films
Roughness and critical exponents analysis of diamond films by AFM imaging, 1
Cyclic voltammetry
Mediated electron transfer across supported bilayer lipid membrane (s-BLM), 201

Deposition process
XPS depth profile analysis of sol–gel calcium-modified lead titanate thin films, 66
Depth profiling
XPS depth profile analysis of sol–gel calcium-modified lead titanate thin films, 66
Diamond
Effects of cemented carbide surface pretreatment in combustion flame chemical vapour deposition of diamond, 118
Silicon carbonitride, a new hard material and its relation to the confusion about 'harder than diamond' C_3N_4, 148
Dielectrics properties
Electrical characterisation of thin silicon oxynitride films deposited by low pressure chemical vapour deposition, 9
Effect of oxygen content and thickness of sputtered RuO_x electrodes on the ferroelectric and fatigue properties of sol–gel PZT thin films, 162

PII: S0040-6090(99)000698-7

Dip-coating
Photo-excitation effects on pyrolysis of metallo-organic precursors for yttria-stabilized zirconia thin films, 38

Electrical measurements
Deposition of transparent and conducting indium-tin-oxide films by the r.f.-superimposed DC sputtering technology, 100
Electrical properties
Deposition of transparent and conducting indium-tin-oxide films by the r.f.-superimposed DC sputtering technology, 100
Electron transfer
Mediated electron transfer across supported bilayer lipid membrane (s-BLM), 201
Electron-beam evaporation
Texture and cross-sectional microstructure of MgO films grown on silicon dioxide by electron-beam evaporation, 82
Ellipsometry
Optimized calibration method for Fourier transform infrared phase-modulated ellipsometry, 187
Epitaxial growth
Heteroepitaxial growth of $La_{0.7}Ca_{0.3}MnO_3/SrTiO_3/TiN/Si$ by pulsed laser deposition, 55
Evaporation
Structural and optical characterization of amorphous and crystalline evaporated WO_3 layers, 73
Evolution
On the short-time compositional stability of periodic multilayers, 267

Fe/Pb/Fe trilayer
Growth and structural characterization of Pb/Fe layered system, 93
Ferroelectric gate oxide
Characteristics of $Pt/SrTiO_3/Pb(Zr_{0.52}, Ti_{0.48})O_3/SrTiO_3/Si$ ferroelectric gate oxide structure, 251
Ferroelectric properties
XPS depth profile analysis of sol–gel calcium-modified lead titanate thin films, 66
Effect of oxygen content and thickness of sputtered RuO_x electrodes on the ferroelectric and fatigue properties of sol–gel PZT thin films, 162
Filtered arc deposition
Morphology and optical properties of gold thin films prepared by filtered arc deposition, 169
Fourier transform infrared spectroscopy
Influence of oxidation and carbon-containing contamination in the stabilization of the luminescence in porous silicon, 34
Optimized calibration method for Fourier transform infrared phase-modulated ellipsometry, 187
Furnace
Effect of pre-annealing on physical and electrical properties of $SrBi_2Ta_2O_9$ thin films prepared by chemical solution deposition, 111

Giant magnetoresistance
Heteroepitaxial growth of $La_{0.7}Ca_{0.3}MnO_3/SrTiO_3/TiN/Si$ by pulsed laser deposition, 55
Glass
Finite size effect on glass transition temperatures, 283
Gold thin films
Morphology and optical properties of gold thin films prepared by filtered arc deposition, 169
Gradient layer coating
Elastic-plastic deformation analysis of multi-layer surface coating under sliding contact, 154
Growth rate
Statistical evaluation of refractive index, growth rate, hardness and Young's modulus of aluminium oxynitride films, 43
Growth and structural characterization of Pb/Fe layered system, 93

Hardness
Statistical evaluation of refractive index, growth rate, hardness and Young's modulus of aluminium oxynitride films, 43
Heat treatment
XPS depth profile analysis of sol–gel calcium-modified lead titanate thin films, 66
Characterization of the PEDOT-PSS system by means of X-ray and ultraviolet photoelectron spectroscopy, 129
Heterostructures
Heteroepitaxial growth of $La_{0.7}Ca_{0.3}MnO_3/SrTiO_3/TiN/Si$ by pulsed laser deposition, 55
Hydrogen-facilitated pitting
Correlation of hydrogen-facilitated pitting of AISI 304 stainless steel to semiconductivity of passive films, 142

Indium oxide
Investigation on ozone-sensitive In_2O_3 thin films, 222
Indium tin oxide
Deposition of transparent and conducting indium-tin-oxide films by the r.f.-superimposed DC sputtering technology, 100
Ion bombardment
Structural and optical modification in hafnium oxide thin films related to the momentum parameter transferred by ion beam assistance, 19
Ionization efficiency
A self-ion assisted beam (SIAB) source based upon unvala electron beam scheme, 29
Isolation methods
Langmuir monolayers of lignins obtained with different isolation methods, 215

Langmuir monolayer
Langmuir monolayers of lignins obtained with different isolation methods, 215
Langmuir–Blodgett films (LB films)
The composite phthalocyanine-based Langmuir–Blodgett films: structural peculiarities and NO-sensitive properties, 237
LCMO
Heteroepitaxial growth of $La_{0.7}Ca_{0.3}MnO_3/SrTiO_3/TiN/Si$ by pulsed laser deposition, 55
Lignin
Langmuir monolayers of lignins obtained with different isolation methods, 215

Low-energy cluster beam deposition
Characterization of granular Ag films grown by low-energy cluster beam deposition, 87
Luminescence
Influence of oxidation and carbon-containing contamination in the stabilization of the luminescence in porous silicon, 34

Magnetic properties and measurements
Heteroepitaxial growth of $La_{0.7}Ca_{0.3}MnO_3/SrTiO_3/TiN/Si$ by pulsed laser deposition, 55
Magnetron sputter deposition
Characterisation of magnetron sputter deposited MoS_x/metal multilayers, 59
Memory window
Characteristics of $Pt/SrTiO_3/Pb(Zr_{0.52}, Ti_{0.48})O_3/SrTiO_3/Si$ ferroelectric gate oxide structure, 251
Metal coordination arrays
Self-assembled thin films of organo-metal complexes, 208
Metal–insulator transition
Microstructure and metal–insulator transition of $NdNiO_3$ thin films on various substrates, 50
Metallo-organic decomposition
Photo-excitation effects on pyrolysis of metallo-organic precursors for yttria-stabilized zirconia thin films, 38
MgO film
Texture and cross-sectional microstructure of MgO films grown on silicon dioxide by electron-beam evaporation, 82
Microhardness
Silicon carbonitride, a new hard material and its relation to the confusion about 'harder than diamond' C_3N_4, 148
Micropatterning
Micropatterning of SiO_2 film using organosilicon nanocluster as a precursor, 13
Microstructure
Texture and cross-sectional microstructure of MgO films grown on silicon dioxide by electron-beam evaporation, 82
MIFIS structure
Characteristics of $Pt/SrTiO_3/Pb(Zr_{0.52}, Ti_{0.48})O_3/SrTiO_3/Si$ ferroelectric gate oxide structure, 251
Molybdenum
Characterisation of magnetron sputter deposited MoS_x/metal multilayers, 59
Monolayers
The composite phthalocyanine-based Langmuir–Blodgett films: structural peculiarities and NO-sensitive properties, 237
Multilayers
Characterisation of magnetron sputter deposited MoS_x/metal multilayers, 59
Porphyrin thin films coated quartz crystal microbalances prepared by electropolymerization technique, 245
On the short-time compositional stability of periodic multilayers, 267

Nanostructures
Langmuir films of polystyrene-b-poly(alkyl acrylate) diblock copolymers, 136
$NdBa_2Cu_3O_{7-\delta}$ (NBCO)
In-situ annealing effect of sputter-deposited $Nd_1Ba_2Cu_3O_{7-\delta}$ thin films, 195
$NdNiO_3$
Microstructure and metal–insulator transition of $NdNiO_3$ thin films on various substrates, 50
Non-destructive read out ferroelectric RAM
Characteristics of $Pt/SrTiO_3/Pb(Zr_{0.52}, Ti_{0.48})O_3/SrTiO_3/Si$ ferroelectric gate oxide structure, 251

Optical coatings
Structural and optical modification in hafnium oxide thin films related to the momentum parameter transferred by ion beam assistance, 19
Optical properties
Effect of an initially sulphur-rich sprayed solution on $CuInS_2$ thin films, 5
Cubic boron nitride thin film synthesis on silica substrates by low-pressure inductively-coupled r.f. plasma chemical vapor deposition, 24
Structural and optical characterization of amorphous and crystalline evaporated WO_3 layers, 73
Deposition of transparent and conducting indium-tin-oxide films by the r.f.-superimposed DC sputtering technology, 100
Morphology and optical properties of gold thin films prepared by filtered arc deposition, 169
Organic semiconductors
Characterization of the PEDOT-PSS system by means of X-ray and ultraviolet photoelectron spectroscopy, 129
The composite phthalocyanine-based Langmuir–Blodgett films: structural peculiarities and NO-sensitive properties, 237
Organosilicon nanocluster
Micropatterning of SiO_2 film using organosilicon nanocluster as a precursor, 13
Oxides
Structural and optical modification in hafnium oxide thin films related to the momentum parameter transferred by ion beam assistance, 19
Ozone
Investigation on ozone-sensitive In_2O_3 thin films, 222

Passive films
Correlation of hydrogen-facilitated pitting of AISI 304 stainless steel to semiconductivity of passive films, 142
Pb/Fe bilayer
Growth and structural characterization of Pb/Fe layered system, 93
Perovskites
Microstructure and metal–insulator transition of $NdNiO_3$ thin films on various substrates, 50
Heteroepitaxial growth of $La_{0.7}Ca_{0.3}MnO_3/SrTiO_3/TiN/Si$ by pulsed laser deposition, 55
Phase transitions
Langmuir films of polystyrene-b-poly(alkyl acrylate) diblock copolymers, 136
Raman scattering from $BaTiO_3$ thin film prepared on silicon substrate by r.f. sputtering, 262

Phosphorus
Application of sol-gel derived films for ZnO/*n*-Si junction solar cells, 227
Photoelectron spectroscopy
Characterization of the PEDOT-PSS system by means of X-ray and ultraviolet photoelectron spectroscopy, 129
Photooxidation
Micropatterning of SiO_2 film using organosilicon nanocluster as a precursor, 13
Piezoelectric effect
Effect of substrate composition on the piezoelectric response of reactively sputtered AlN thin films, 256
Plasma processing and deposition
Studies of amorphous carbon using X-ray photoelectron spectroscopy, near-edge X-ray-absorption fine structure and Raman spectroscopy, 106
Plastic deformation
Elastic-plastic deformation analysis of multi-layer surface coating under sliding contact, 154
Polymer films
In situ second-harmonic generation measurement study of poled phenylhydrazone doped polymer films, 231
Polymers
Langmuir films of polystyrene-b-poly(alkyl acrylate) diblock copolymers, 136
Finite size effect on glass transition temperatures, 283
Polysilane
Micropatterning of SiO_2 film using organosilicon nanocluster as a precursor, 13
Polythiophene and derivatives
Characterization of the PEDOT-PSS system by means of X-ray and ultraviolet photoelectron spectroscopy, 129
Polyvinylalcohol
Simultaneous measurement of spectral optical properties and thickness of an absorbing thin film on a substrate, 173
Porphyrins
Porphyrin thin films coated quartz crystal microbalances prepared by electropolymerization technique, 245
Optical properties of metal-free tetraphenylporphyrin (H2TPP) dispersed into vacuum-deposited nylon-11 film, 276
Pre-annealing
Effect of pre-annealing on physical and electrical properties of $SrBi_2Ta_2O_9$ thin films prepared by chemical solution deposition, 111
Pulse laser deposition
Heteroepitaxial growth of $La_{0.7}Ca_{0.3}MnO_3/SrTiO_3/TiN/Si$ by pulsed laser deposition, 55

Raman scattering
Raman scattering from $BaTiO_3$ thin film prepared on silicon substrate by r.f. sputtering, 262
Rapid thermal annealing
Effect of pre-annealing on physical and electrical properties of $SrBi_2Ta_2O_9$ thin films prepared by chemical solution deposition, 111
Reflection spectroscopy
Optimized calibration method for Fourier transform infrared phase-modulated ellipsometry, 187
Refractive index
Statistical evaluation of refractive index, growth rate, hardness and Young's modulus of aluminium oxynitride films, 43
Simultaneous measurement of spectral optical properties and thickness of an absorbing thin film on a substrate, 173
Resistivity
A self-ion assisted beam (SIAB) source based upon unvala electron beam scheme, 29
RF sputtering
Microstructure and metal–insulator transition of $NdNiO_3$ thin films on various substrates, 50

Scanning tunnelling microscopy
Porphyrin thin films coated quartz crystal microbalances prepared by electropolymerization technique, 245
Second-harmonic generation
In situ second-harmonic generation measurement study of poled phenylhydrazone doped polymer films, 231
Self-ion assisted beam
A self-ion assisted beam (SIAB) source based upon unvala electron beam scheme, 29
Semiconduction
Correlation of hydrogen-facilitated pitting of AISI 304 stainless steel to semiconductivity of passive films, 142
Semiconductors
Effect of an initially sulphur-rich sprayed solution on $CuInS_2$ thin films, 5
Sensors
Investigation on ozone-sensitive In_2O_3 thin films, 222
The composite phthalocyanine-based Langmuir–Blodgett films: structural peculiarities and NO-sensitive properties, 237
Porphyrin thin films coated quartz crystal microbalances prepared by electropolymerization technique, 245
Silicon
Influence of oxidation and carbon-containing contamination in the stabilization of the luminescence in porous silicon, 34
Silicon carbonitride
Silicon carbonitride, a new hard material and its relation to the confusion about 'harder than diamond' C_3N_4, 148
Silicon dioxide
Micropatterning of SiO_2 film using organosilicon nanocluster as a precursor, 13
Silicon oxide
Cubic boron nitride thin film synthesis on silica substrates by low-pressure inductively-coupled r.f. plasma chemical vapor deposition, 24
Optimized calibration method for Fourier transform infrared phase-modulated ellipsometry, 187
Silicon oxynitride
Electrical characterisation of thin silicon oxynitride films deposited by low pressure chemical vapour deposition, 9
Silver
Characterization of granular Ag films grown by low-energy cluster beam deposition, 87
Texture and cross-sectional microstructure of MgO films grown on silicon dioxide by electron-beam evaporation, 82
Sliding contact
Elastic-plastic deformation analysis of multi-layer surface coating under sliding contact, 154

Solar cells
Application of sol-gel derived films for ZnO/*n*-Si junction solar cells, 227
Spectral dependence
Simultaneous measurement of spectral optical properties and thickness of an absorbing thin film on a substrate, 173
Sputtering
Deposition of transparent and conducting indium-tin-oxide films by the r.f.-superimposed DC sputtering technology, 100
In-situ annealing effect of sputter-deposited $Nd_1Ba_2Cu_3O_{7-\delta}$ thin films, 195
Effect of substrate composition on the piezoelectric response of reactively sputtered AlN thin films, 256
$SrBi_2Ta_2O_9$
Effect of pre-annealing on physical and electrical properties of $SrBi_2Ta_2O_9$ thin films prepared by chemical solution deposition, 111
Stability
On the short-time compositional stability of periodic multilayers, 267
Stress
Elastic-plastic deformation analysis of multi-layer surface coating under sliding contact, 154
Raman scattering from $BaTiO_3$ thin film prepared on silicon substrate by r.f. sputtering, 262
Structural characterization
Growth and structural characterization of Pb/Fe layered system, 93
Structural properties
Effect of an initially sulphur-rich sprayed solution on $CuInS_2$ thin films, 5
Structural and optical characterization of amorphous and crystalline evaporated WO_3 layers, 73
Studies of amorphous carbon using X-ray photoelectron spectroscopy, near-edge X-ray-absorption fine structure and Raman spectroscopy, 106
Sulphur
Characterisation of magnetron sputter deposited MoS_x/metal multilayers, 59
Supported bilayer lipid membrane
Mediated electron transfer across supported bilayer lipid membrane (s-BLM), 201
Supramolecular chemistry
Self-assembled thin films of organo-metal complexes, 208
Surface and interface states
Application of sol-gel derived films for ZnO/*n*-Si junction solar cells, 227
Finite size effect on glass transition temperatures, 283
Surface composition
Effect of substrate composition on the piezoelectric response of reactively sputtered AlN thin films, 256
Surface pressure
Langmuir films of polystyrene-b-poly(alkyl acrylate) diblock copolymers, 136
Surface pretreatment
Effects of cemented carbide surface pretreatment in combustion flame chemical vapour deposition of diamond, 118
Surface roughness
Morphology and optical properties of gold thin films prepared by filtered arc deposition, 169
Surface thermodynamics
Finite size effect on glass transition temperatures, 283

Texture
Texture and cross-sectional microstructure of MgO films grown on silicon dioxide by electron-beam evaporation, 82
Thin films
Photo-excitation effects on pyrolysis of metallo-organic precursors for yttria-stabilized zirconia thin films, 38
Statistical evaluation of refractive index, growth rate, hardness and Young's modulus of aluminium oxynitride films, 43
Microstructure and metal–insulator transition of $NdNiO_3$ thin films on various substrates, 50
Self-assembled thin films of organo-metal complexes, 208
Optical properties of metal-free tetraphenylporphyrin (H2TPP) dispersed into vacuum-deposited nylon-11 film, 276
Time-resolved fluorescence spectroscopyOptical properties of metal-free tetraphenylporphyrin (H2TPP) dispersed into vacuum-deposited nylon-11 film, 276
Tungsten oxide
Structural and optical characterization of amorphous and crystalline evaporated WO_3 layers, 73

Vacuum ultraviolet
Photo-excitation effects on pyrolysis of metallo-organic precursors for yttria-stabilized zirconia thin films, 38

X-ray diffraction
Structural and optical modification in hafnium oxide thin films related to the momentum parameter transferred by ion beam assistance, 19
Raman scattering from $BaTiO_3$ thin film prepared on silicon substrate by r.f. sputtering, 262
X-ray photoelectron spectroscopy
Influence of oxidation and carbon-containing contamination in the stabilization of the luminescence in porous silicon, 34
XPS depth profile analysis of sol–gel calcium-modified lead titanate thin films, 66
Investigation on ozone-sensitive In_2O_3 thin films, 222
X-ray refletivity
Self-assembled thin films of organo-metal complexes, 208

Vacuum-deposition
Optical properties of metal-free tetraphenylporphyrin (H2TPP) dispersed into vacuum-deposited nylon-11 film, 276

Young's modulus
Statistical evaluation of refractive index, growth rate, hardness and Young's modulus of aluminium oxynitride films, 43
Yttria-stabilized zirconia
Photo-excitation effects on pyrolysis of metallo-organic precursors for yttria-stabilized zirconia thin films, 38

Zinc oxide
Application of sol-gel derived films for ZnO/*n*-Si junction solar cells, 227